

Atlas Copco

ROC Manager



A Software Tool to Plan and Evaluate Surface Drilling

Atlas Copco

Fast and accurate drilling with consistently good blasting results and the documentation to prove it. What better way to control your costs and grow your reputation! It's all within your grasp with Atlas Copco's ROC Manager.

The ROC Manager software system contains a set of integrated functions for:

- Generating and editing drill plans.
- Evaluating the results of drilling from data logged by the rig's control system and hole deviation data obtained from a bore-hole probe.
- Generating hard-copy reports of drill plans, drilling results and hole deviation data.

ROC Manager runs on a stand alone Windows PC. Drill plans are produced on the PC and transferred to the rig by means of a PC card. Logged drilling results are transferred back to the PC for analysis in the same way. And the planning and evaluation data for multiple projects across different sites can all be recorded in a single common database.

Benefits

- Accurate drill plans
- Better blasting results - more even fragmentation, less overbreak and flat new bench floor
- Safer blasting - lower risk of flying rocks
- Clear presentation of logged drilling results including, if available, graphical representation of MWD (Measure while Drilling) data that can be used to analyse the kind of rock formation being dealt with and refine the drilling operation accordingly

Savings in time and money leading to better overall economy.

ROC Manager

- streamlining the drilling and blasting process

Planning



Logging of results



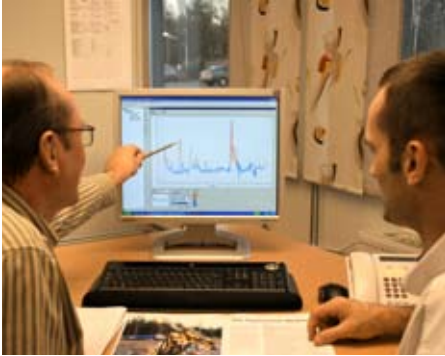
Drill plans are developed in the office on a PC. They are then copied to a PC card, which is transferred to the drill rig. There the plans are loaded into the rig control system.

The drill rig operator uses the drill plans to drill the holes in each round. Results, including MWD data if available, are logged by the rig control system, copied to a PC card and transferred back to the office for evaluation.

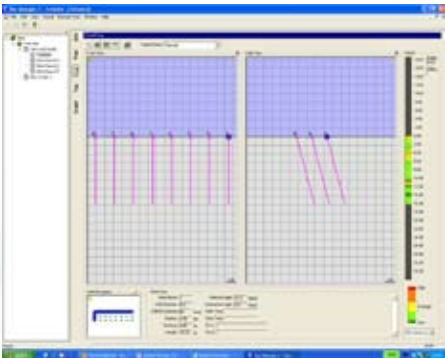
Hole deviations can be measured with a bore-hole probe and stored on a laptop PC. This data can also be transferred to the office PC and integrated with the data logged by the rig.



Evaluation

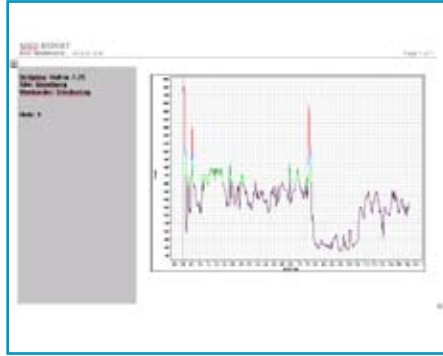


Several different analysis screens are available. MWD results can be seen in graphical form by clicking on “Graph”.



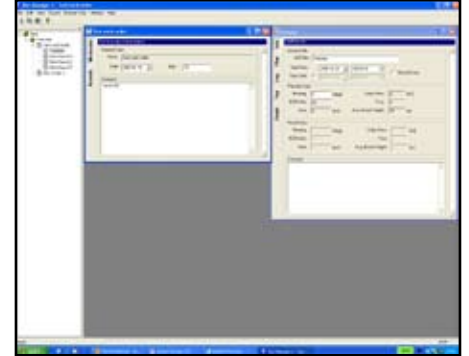
Drilling results are analysed offline in the office by specialists and can be used to refine the drill plans for the next rounds.

Reporting



A number of hard-copy reports can be generated, showing drill plans and results in the form of graphs and tables. These can be useful for the rig operator while drilling, for specialists to evaluate rock conditions and adjust plans accordingly, and as status reports for management or customers.

Administration



Data for different work sites, such as drill plans, are stored in a hierarchical tree structure. This gives an excellent picture of work done and of work in progress and brings a high degree of order to the operation.





System requirements

- IBM PC compatible computer with a 120 MHz (or faster) Pentium processor
- 32 MB RAM primary storage
- Free disc space of 5MB
- Microsoft Windows version 98 or later, or Microsoft Windows NT Version 4 or later
- Microsoft Word 97 or later (for printing of reports)
- Mouse with two or more buttons
- Color monitor (recommended)
- Printer
- PCMCIA card reader (for transporting data to and from drill rig)
- USB or parallel port